

Harewood mine plans for full-mechanical mining	*226
Mahanoy City Colliery life extended by mechanizing basin mining. R. D. Hall	*283
Mechanical loading equipment and operation—Rocky Mountain Coal Mining Inst. meeting	263
Mechanization marches on—American Mining Congress	233
Milestones in mechanical loading	*405
Mine operators extend use of power and machinery	*62
Mining methods and mechanization over the years	*399
Pennsylvania's anthracite region alive to new production methods in 1935	*50
Progress in 25 years discussed at Coal Mining Institute	30
Record loading at Buhah mine, N. D.—Rocky Mountain Coal Mining Inst. meeting	*264
Robinson Run mine uses loaders for pillar robbing. I. A. Given	*315
Scraper mining—Rocky Mountain Coal Mining Inst. meeting	263
Servicing mechanical loaders—Illinois Mining Institute	308
Snow Hill Talleymore operations completely mechanized. I. A. Given	*491
Soft-coal Industry advances in mechanization. Paul Weir	*505
Templeton mines mechanize loading and cleaning	*7
West Virginia Coal & Coke Corp. mechanical loading	*551
West Virginia Coal Mining Institute discusses mechanization at meeting	523
Willow Grove enters list of completely mechanized mines	33

Merchandising

Air conditioning drive begun with marketing of unit which is part of system	382
Anthracite Industries organized to promote anthracite	345
Anthracite plans three-year program	311
Anthracite Service Corp. dissolves	161
Appalachian Coals fuel engineers' division meet to discuss preparation problems	344
Development of merchandising data needed (e)	130
Dustproofing coal brings wide consumer acceptance. C. E. West	*229
Modernizing home heating. A. J. Johnson	*436
National Coal Assn. resents commercial activity of captive producers	482
Rehabilitation plan launched by Citizens' Anthracite Conference	311
Scranton Chamber of Commerce plans anthracite boosting trip	387
Should mines sell stokers under private trade names?	330
West Virginia Coal & Coke Corp. merchandising practices	*586

Midwest Coal Traffic Bureau

Officers elected	302
------------------	-----

Midwest Stoker Assn.

Officers elected	122
------------------	-----

Mine Inspectors' Institute of America

Officers elected	*340
Report on Denver convention	*340

Mineral Industries Conference

Fourth annual conference at Urbana, Ill.	269
------------------------------------------	-----

Mining Methods

A.I.M.E. discusses at New York meeting	116
Air-driven shakers give 8 to 9 tons per manshift at Kemmerer mine. I. A. Given	*372
Ancient failures (e)	489
Booming system of mining discussed by A.I.M.E.	*602
Conveyors used for working thin-seam coal in new Peerless mine. I. A. Given	*290
Mahanoy City Colliery life extended by mechanizing basin mining. R. D. Hall	*283
Mining methods and mechanization over the years	*399
Modernizing mining methods—American Mining Congress	232
Panel system of mining at New Hope, Baker and Peerless mines	*7
Robinson Run mine averages 15.6 tons per man working in pillar sections. I. A. Given	*315
"Rock wants" and their origin—Rocky Mountain Coal Mining Inst. meeting	262
Snow Hill Talleymore operations completely mechanized. I. A. Given	*491
Then and now. Erskine Ramsay	*469
Valley Camp's Wheeling Division mines make improvements for low cost and safety. I. A. Given	*171
Webster field brings additional tonnage to West Virginia	*3
West Virginia Coal & Coke Corp. mining methods	*547

Mining Society of Nova Scotia

Forty-ninth annual meeting—shaft sinking, cutting, air power and steam discussed	347
Officers elected	348

Monongahela Valley Coal Mining Institute

Officers elected	29
------------------	----

N**National Bituminous Coal Commission**

Asks schedules of prices in 30 days	37
Fixes classification standards	163
Orders classification and pricing	83
Pushes price-coordination drive	121

National Coal Assn.

Association secretaries meet in Chicago	383
-----------------------------------------	-----

National Industrial Recovery Act

Dissolved by President	28
------------------------	----

National Safety Council

Mining Section leaders elected	528
Mining Section meeting at Atlantic City	529

Natural Gas

Detroit's gas line proceeding	218
Federal Trade Commission advises government gas control	85
Grand Rapids pipe line started	218
Northern Natural Gas lets contract for line	218
Rochester to get natural gas	485

New Equipment

Balance	*128
Bearing unit	*127
Bearings	392
Bearings, ball	39
Bearings, grip lock	*390
Belt	40
Blueprinter	*220
Brake lining	40
Car puller	*390
Car stops	*128
Cincinnati exposition of new equipment	*239
Coal cleaner	*351
Commutator supports	219
Compressor	536
Compressor, air	*167
Concrete placer	*40
Conveyor, bucket	219
Conveyor, self loading	*391
Crusher, sample	*40
Derail	*128
Dragline	*392
Drill, strip-pit	*126
Drilling equipment	*534
Drive, variable	*220
Dust collector	*220; *352

Electricity

Analyzer, d. c.	*167
Battery, dry-cell type	*128
Brush holder	*391
Cable accessories	*390
Clamp	*391
Clamp, strain	*128
Coil-winder drive	*536
Contactor, a. c. low voltage	168
Fuse clamps	536
Grounding fittings	127
Insulator	*391
Lamps	*391
Marker, portable	*536
Meter, KVA	128
Motor, fan-cooled	*167
Motor, insulation	*535
Motor reducer	*536
Motor, squirrel-cage	167
Motor starter	*351
Pliers instead of blowtorch or burner	*536
Pulley, magnetic	*167
Recloser, timing	*126
Rectifier	*534
Regulator, generator voltage	390
Relay, thermal-induction	*168
Storage battery	40
Switch, magnetically operated	*168
Switch, shipper rod operated	168
Switch, hook-operated, disconnected	127
Switchboard, streamlined	*127
Switchgear, metal-clad light duty	*127
Switching equipment, angle	*126
Variable drive	*352
Volt-ohmeters	*126
Excavator	*39; *390
Explosive, slowest permissible	391
First-aid kit	351
Generator, acetylene	*126
Goggle	168; *534
Goggle lens	*39
Hand guard	*352
Headlights	*126
Heat dryer	*534
Hoists, slushing	39
Hose masks	*39
Hose, oil resisting	219
Hydrogen-sulphide detector	*39
Indicator, temperature for motors	*127
Jack, utility	*219
Jackhammers	*534
Loader	*40
Locomotive, diesel-electric	*352
Magnet for tramp iron	*128
Motor base	*168
Nitramon primer	*352
Nozzle, spray	*392
Oiling units	*392
Oils	*351
Oxygen apparatus	*39

Obituary

Acker, Warren T.	350
Ashcraft, Thomas J.	269
Bell, J. Wade	604
Berwind, Edward J.	*388
Botting, David C.	488
Bowers, Robert A.	307
Brown, Medford J.	388
Coolidge, William H.	307
Corgan, John B.	218
Crawford, George G.	164
Cummins, William J.	164
Curran, John J.	605
Dudley, Alexander M.	122
Duncan, Daniel	488
Foster, Thomas J.	527
Gorman, James A.	*604
Graff, Frank M.	388
Greenwood, Ernest A.	122
Hager, Charles J.	218
Hall, Charles G.	488
Hammond, John Hays	*307
Harman, Everett M.	527
Harman, Henry E.	87
Hewitt, Richard	269
Horton, Frank	218

O

House, Frank M.	33	Gallagher, Michael	486	Spiker, John	523
Ireland, Rufus J.	123	Geise, W. B.	485	Stadelman, W. H.	215
James, William	123	George, Eric	522	Steinbugler, John L.	272
Jarrett, R. H.	218	Gibbs, A. W.	600	Stiglic, E. M.	122
Jenkins, Jonathan	87	Gillie, P. H.	272	Stuart, Charles E.	273
Laing, David	488	Glozman, C. K.	485	Sullivan, W. J.	215
Lawton, Albert D.	388	Gohl, William	485	Swain, Frank T.	214
Leake, William E.	164	Gray, John	387	Sweet, C. N.	215
Lee, J. E.	164	Gray, J. W.	303	Sweet, Frederick A., Jr.	215
Low, Fred R.	86	Hadesty, George B.	162	Tait, Godfrey	344
Martin, Clarence M.	307	Hager, John W.	272	Turner, E. H.	486
McCool, Edward J.	527	Hale, H. O.	387	Turner, H. M.	486
McGinnis, W. D.	33	Hansen, D. L.	343	Turner, J. W.	388
McQuade, John E.	87	Harrington, Geo. B.	600	Vinson, W. A.	523
Moore, Marshall G.	350	Heard, M.	215	Vogtle, A. W.	163
Moore, Newton	604	Heed, Thomas D.	29	Wade, William	601
Moorman, Charles L.	527	Henson, Grant	29	Wallace, Conley	272
Morris, Andrew K.	87	Hert, A. K.	600	Ware, Louis	122
Morrison, G. H.	488	Hines, Ralph J.	29	Warinner, R. J.	215
Morrow, William E.	218	Hitt, Joseph E.	387	Watson, S. L.	272
Murphy, George A.	388	Holbrook, J. M.	387	Watt, C. M.	215
Neel, C. B.	*87	Holt, Cleve	600	Weir, Paul	486
Orr, Clarence N.	605	Hood, O. P.	343	Wetzel, George	215
Palmer, John F.	605	Hope, Henry	600	White, Jerome C.	601
Pape, B. W.	527	Hoslin, Charles T.	486	White, L. L.	486
Plank, Charles E.	488	Huff, Wilbert J.	*84	Williams, Edward D.	344
Pow, Andrew S., Sr.	388	Hughes, Jesse	387	Williams, J. P.	29
Reed, Charles E.	164	Humphrey, E. P.	*122	Wilson, J. B.	601
Skelly, James T.	604	Huntress, Douglas K.	84	Yankee, Paul	163
Sweet, Frederick A.	164	Hutchinson, Ely G.	272	Yant, William P.	486
Theiss, George H.	164	Ireland, Rufus J.	215	Yates, William	388
Thompson, Wallace	86	Jamieson, David D.	215	Yeager, Louis	122
Thorne, Charles S.	164	Jarrett, Claude	523	Young, Louis E.	601
Traer, Glenn W.	87	Jenkins, Frank	600	Young, W. P.	486
Tuck, Lafayette	123	Jobes, E. R.	485	Zupa, Daniel A.	486
Van Sant, L. P.	215	Johnstone, J. K.	84	Pittsburgh—Coal bed's past and future	527
Vigneau, Joseph J.	350	Jones, Charles	601	A.I.M.E. meeting	527
Walker, George J.	87	Jones, Thomas R.	29	Pocahontas Electrical & Mechanical Institute	
Walters, William	604	Jones, William E.	84	Industrial exhibit held at Bluefield	385
Warfield, Harry H.	218	Joseph, Roy D.	303		
Wigton, Frank H.	388	Kania, John	601		
Wilmot, George W.	*164	Keeney, L. H.	601		
Yarcho, A. F.	605	Kessinger, J. T.	272		
OIL					
Jacksonville, Ill., balks at PWA allotment for oil-burning plant	88	Kieffer, M. C.	215		
P					
Personal Changes					
Adams, Robert C.	162	Kirk, Ralph E.	272	Power	
Adams, R. L.	*272	Koch, John H.	122	Boiler plants discussed at Nova Scotia meeting	347
Aldridge, A. B.	600	Koepfer, W. E. E.	303		
Anderson, James S.	600	Koring, L. F.	387		
Armstrong, W. D.	215	Kuhn, J. B.	601		
Atwater, William C., Jr.	272	Kynor, Herbert E.	84		
Aurelius, Thomas	272	Lacey, W. M.	388		
Badger, J. G.	29	Lambert, E. C.	388		
Bailey, Lee	486	Lewis, W. B.	303		
Ballou, Walter L.	486	Love, Edward L.	162		
Banta, Walter L.	214	Lovell, George H.	29		
Battey, R. B.	214	Luttrell, Samuel	214		
Beck, Clarence V.	272	MacDonald, J. W.	84		
Beckley, T. A.	387	Mahen, James E.	84		
Berwind, Charles G.	122	Malleis, O. O.	84		
Billadson, R. S.	600	Marshall, A. F.	214		
Boyle, A. J.	600	Mathieson, W. F.	84		
Bradley, J. G.	84	Maxwell, W. A., Jr.	29		
Brown, A. R.	84	McGowan, Terry	29		
Brown, Geo. W.	600	McGraw, James H.	28		
Bruce, L. C.	214	McGrew, D. C.	272		
Burress, William	272	McMorris, Charles A.	303		
Bylund, Gothard	272	Mitchell, Lacy	272		
Cadman, Charles M.	84	Monnett, Osborn	485		
Cain, Frank D.	*302	Moore, John	601		
Callen, A. C.	*302	Moore, W. S.	485		
Campbell, Cecil	486, 600	Moorhead, William	388		
Caperton, William G.	84	Moran, Harry E.	522		
Carey, A. W.	485	Morris, J. M.	122		
Carlisle, Virgil	600	Morris, Nelson	303		
Carroll, D. J.	29	Moser, M. M.	122		
Carson, Roy	600	Muir, Robert	601		
Cassidy, Samuel	600	Nairn, Patrick	485		
Chase, W. C.	272	Newhall, D. A.	388		
Clark, John A., Jr.	343	Norton, John V.	122		
Clark, J. M., Jr.	343	O'Connor, Edward S.	485		
Clendenin, Green	122	Oliver, Walter	163		
Coldwell, Pat	600	Orr, Newell H.	272		
Conlon, John, Sr.	387	Osborne, Fred	303		
Cosgrove, John C.	272	Ostby, Oscar F.	215		
Cotts, R. J.	123	Patterson, B. E.	215		
Craft, George W.	123	Pirung, Kenneth	486		
Crouse, C. S.	387	Plummer, R. M.	601		
Croyle, Eugene	387	Pool, Floyd	601		
Cummings, F. H.	215	Potter, Walter	485		
Curry, Joseph	163	Poulter, Thomas C.	215		
DeBardeleben, Charles F.	84	Quinn, R. S.	84		
Daniel, John F.	272	Ramsuer, Dabney	303		
Danis, Samuel	522	Ratliff, Roy	523		
Davis, Philip S.	485	Redshaw, William	343		
Disque, Price P.	387	Reese, Gomer	486		
Dodge, D. D.	302	Reese, Seth T.	162		
Dunn, James	272	Reinbrecht, George H.	*215		
Eavenson, Howard N.	122	Richardson, Charles F.	601		
Edwards, J. H.	343	Richardson, W. M.	122		
Ellis, Howard	387	Riley, F. E.	215		
Ellis, Wayne P.	387	Roberts, George	523		
Ellsworth, H. S.	343	Robertson, T. J.	84		
Erdman, E. G.	343	Robinson, E. H.	84		
Esser, George H.	485	Roeder, Arthur	272		
Estep, R. C.	84	Rosser, E. M.	215		
Evans, E. H.	600	Rutledge, Frank	163		
Evans, L. M.	214	Schafer, G. J.	303		
Evans, M. A.	163	Scholl, F. R.	601		
Evans, O. W.	122	Schott, C. M.	272		
Eyrick, Paul R.	162	Schultz, George A.	388		
Fieldner, A. C.	214	Sharer, O. G.	344		
Fies, Milton H.	*302, 343	Shields, Paul	215		
Fletcher, J. H.	302	Sisk, A. D.	601		
Flynn, Robert	88	Sloan, W. E.	215		
Ford, Harry C.	600	Smith, A. D. W.	303		
Foster, J. J.	162	Smith, Harry N.	523		
Francis, James D.	600	Smith, James B.	388		
Fuller, Joe	84	Snetsinger, D. N.	84		
	272	Sorenson, Glen	215		
		Soule, M. M.	122		
		Southerland, D. C.	303		
Geophysical windows (e)					
Gravity methods also successful. G. Stubble					
Drainage and pumping of mines from early years to now					
Siphons and pumps (e)					
Suction control for gather pumps					
West Virginia Coal & Coke Corp. drainage and pumping methods					
Pumps and Pumping					
See also Drainage					

R

Ramsay given Saunders model for mining achievement *522

Refuse disposal

Cambridge Collieries cuts cost of refuse disposal by semi-portable hoist *516
Plow spreads larry discharge *298

Regulation

Additional suits to restrain tax collection under Guffey Act filed 121
Dominates economic picture in 1935 43
Guffey Act decision effects 301
Guffey Act post mortem (e) 221
Guffey Act invalidation effects surveyed by Coal Age 261
Guffey Act thrown out by Supreme Court 259
Guffey Act to be tested by Supreme Court 37
Guffey Act to reach Supreme Court
March 11 83
Guffey Act validity argued by Supreme Court 163
Guffey bill as revised may be passed in next session 484
Guffey-Vinson bill (e) 222
Guffey-Vinson bill introduced 259
Guffey-Vinson bill killed by filibuster threat 300
Guffey-Vinson bill laid over until next January (e) 273
National Bituminous Coal Commission asks price schedules in 30 days 37
National Bituminous Coal Commission fixes classification standards 163
National Bituminous Coal Commission orders classification and pricing 83
National Bituminous Coal Commission pushes price-coordination drive 121

Regulation. See also Law and legislation

Research

Better markets planned by extended research in 1935 59
Bureau of Mines starts coal-hydrogenation plant *482
Coal looks to research. C. E. Williams *452
Coal research projects in progress or completed in 1935 or planned for 1936 60
Cooperation needed (e) 313
Illinois shows advances in research 212
Steam-distilled coal gives low temperature coke in Karrick carbonization process. Jacobson & Carter *148
West Virginia University offers fellowship 350

Rocky Mountain Coal Mining Institute

Officers elected 262
Report of Salt Lake City meeting *262
Salt Lake City three-day meeting 215

Roof control

Forestalling trouble (e) 1
Snow Hill mine uses various roof supports *24
Rush-Roberts Engineering Co. organized 162

Roof control. See also Timbering

S**Safety**

A.I.M.E. discusses safety practices 602
A.I.M.E. discusses at New York meeting 116
Accident prevention (e) 313
Accident prevention history and progress 463
"Athlete's foot" and its prevention 25
Automatic signal warns against cars *298
Coal-mine design as related to safety—Rocky Mountain Coal Mining Inst. meeting 262
Cutting the accident toll—American Mining Congress 236
Discarded posters (e) 2
Dust from dump at slope bottom removed by vacuum fan at tipple *111
Electric eye guards railroad crossing *591
First aid kits are portable *155
Hangers utilized to install trolley guard boards *519
Hartneady plans safety drive in Pennsylvania 484
Holmes awards given for safety 165
Holmes safety certificate awarded to United Electric Coal *312
Indiana Coal Mining Institute discusses safety work 303
Lamp with thermostatic coil detects methane—Coal Mining Institute *32
Lamps and better light discussed at Coal Mining Institute 31
Management must take lead in accident prevention. G. B. Pryde *319
Mine fog to allay dust (e) 89
Mine Inspectors discuss accident-prevention progress in Denver *340
Miner training promotes safety—Rocky Mountain Coal Mining Inst. meeting 266
Missouri acts to prohibit reopening mines without rigid inspection 482
National Safety Council discusses health workers and anthracite blasting at meeting 529
No-fatality record established by Republic Steel 86
Northern Colorado Mine Safety Assn. organized 162
Portable trolley guard *155
Records for safety in 1935 close to 1933. Daniel Harrington 64

Relation between inspectional forces and fatalities per thousand employees 31
Rock-dusting makes Illinois relatively immune from explosions (e) 1
Roof-fall accidents discussed at Coal Mining Institute 31
Safety in relation to operation efficiency—Illinois Mining Institute meeting 308
Safety sign of glittering letters to attract attention *295
Saw guard *338
Sealed reports on accidents (e) 353
"Sentinels of Safety" trophies awarded to Elkhorn Piney Coal and Jeddah Highland Coal 301
Short axe handles safer 517
Silicosis and sequelae (e) 42
Silicosis conference planned 597
Silicosis legislation to be studied by Department of Labor 213
Silicosis rackets (e) 169
Silicosis studies begun by U. S. Dept. of Labor 272
Snug-fitting clothes for safety. Harry Northover 312
Standard procedure in case of a mine accident 520
State mine inspectors officer should not change with politics (e) 490
Taking care of keys for first-aid kits 25
Tipple dust in mines (e) 42
Trip flag with reflectors *155
Trip marker for car made of pipe and reflector *337
U. S. Fuel Co. safety hints *337
Valley Camp's Wheeling Division mines prove worth of safety measures *197
West Virginia Coal & Coke Corp. safety practices *577

Sales agencies

Alabama Coals Inc. plans for sales and distribution 261
Anthracite Service Corp. dissolves 161
Appalachian Coals, Inc. makes plans to expand its work 261
Hocking Coals, Inc. plans meeting of directors 262
Northern West Virginia producers to meet to plan district agency 262
Offers opportunities in building foundation for modern merchandising (e) 221
United Eastern Coal Sales Corp. completes organization 596
West Virginia and Indiana moving to form coal sales agencies 345

Shafts

East Bear Ridge shaft upraising sets new record in construction costs. H. A. Dierks pt 1, *182, *223
Protecting concrete linings against water. A. W. Hesse *511
Shaft stairway supported by concrete pads *591
Sinking problems discussed at Nova Scotia meeting 347

Short Course in Coal Utilization

University of Illinois at Urbana, Ill., holds study sessions 305

Silicosis. See Safety

Smoke abatement and better combustion promoted at Appalachian Coals Inc. Cincinnati meeting *526
Smoke study to be made by St. Louis Medical Society 389

Smokeless Coal Industrial Exposition

Equipment exposition held at Mt. Hope 484

Smokeless Coal Operators' Assn. of West Va.

Officers elected 29

Southern Wyo. Coal Operators' Assn.

Officers elected 523

Stocks, bituminous coal

Monthly stocks 120, 158, 257, 299, 339, 381, 481, 521

Stokers

A.I.M.E. discusses stokers and bedding. *603
Anthracite stokers with automatic ash removal *310
Burner, coal, new *216
Domestic stokers discussed at Illinois Mining Inst. 597
Home stoker installed upstairs in Birmingham Chamber of Commerce 600
More new stokers ready 488
Permanent exposition of stokers by Link-Belt 162
Report form revised 606
Sales 33, 163, 211, 258, 305, 384, 485, 522, 607
Should mines sell stokers under private trade names? 330
Stoker-boiler unit announced *382
Symposium on stokers held by A.C.I. 87

Stoker Manufacturers' Assn.

Planning convention 257
Report of White Sulphur Springs meeting 310

Stream pollution

Federal control challenged at Senate Committee hearings 159
Mine water vs. sewage (e) 170

Stripping

Bigger shovels developed in 1935 to speed stripping activities *54
Bobolink mine uses 30 yd. shovel and 25-ton trailers. I. A. Given *131
History of strip mining *412
Progress made in stripping discussed at Indiana Institute 35

Sternberg operating plan produces high tonnage with small stripping units *325
Sunlight modernizes stripping and preparation plant *189
West Virginia Coal & Coke Corp. maintenance methods and supplies *574

T**Tariffs**

Oil excise taxes backed by coal men 85

Taxes

Bill would tax fuel oil 211
Utah reduces taxes on coal operators 165

Tennessee Valley Authority

Alabama Power files suit against TVA 346
Constitutionality of TVA attacked by 19 public utilities 299
Industry must go to Congress to check program in inception (e) 80
Nineteen utilities bring suit against TVA 595
Six new dams proposed 216
Supreme Court to decide on validity 28
Supreme Court upholds right to sell power 115
Tennessee Electric Power Co. restrains sale of TVA power 381

Timbering

Hetch drill improves timbering art—Indiana Institute meeting 35
Preservation discussed at Indiana Institute 34

Timbering. See also Roof Control

Transportation

A.I.M.E. discusses transportation *602
All welded inspection car *210
Car changing aided by transporter *377
Closed-circuit signal system avoids one slope hazard *114
Clyde mines construct permanent haulways *362
Curved pipe trolley supports *208
Cutting gradients (e) 222
Derail block *200
Derailments at frog prevented by auxiliary guard *27
"Devil-head" holds rope on incline sheaves *206
Four-wheel drive attained on locomotive by out-side chain *112
Gradual rise of feeder dogs easier on cars *78
Hanna mines proves efficiency of welded track. J. H. Edwards *137
High tensile steel mine cars feature Red Jacket Jr. development. J. H. Edwards *278
History of coal mine transportation 417
Locomotive battery shifted by air cylinder *113
Locomotive height cut by removing motor or adding pony truck for reel *78
Locomotives rebuilt for operating in lower coal *334
New Monarch coordinates and modernizes its transportation. C. C. Conway *275
New River and Pocahontas Consolidated Coal use rolled steel wheels with "balloon" tread. J. H. Edwards *365
Plug in frog to prevent derailment *297
Relays reduce trip stoppages on heavy grades *114
Revising haulage speeds operation—Rocky Mountain Coal Mining Inst. meeting 265
Sliding shoe stops cars before striking derail *520
Speeding up transportation—American Mining Congress 234
Spring rail holds switches in room turn-outs *337
Summerlee mine increases output by new mine cars *20
Spring bumper dogs to localize coupling cars in empty hole *81
Track construction and haulage control at Valley Camp mines. I. A. Given *171
Trolley wire raised with angle straps *206
Underground crossing design *338
Welded 40-lb. frogs used at Talleymale mine *517
Welded rail joints included in New Monarch transportation program. C. C. Conway *275
West Virginia Coal & Coke Corp. transportation practices *556
West Virginia Coal Mining Institute discusses transportation at meeting 523

U**United Mine Workers**

District officers re-elected 388
Report of convention in Washington 124

United Mine Workers. See also Labor

Utilization

A.I.M.E. discusses at New York meeting 116
Ammonia for engines? (e) 90
Coal in agriculture (e) 313
Coal still dominates urban domestic fuel markets *368

- Gas station built with coal..... *607
 Gasoline from coal experimental plant started by Bureau of Mines..... *482
 Short Course in Coal Utilization, University of Illinois, Urbana, Ill..... 305
 Solid petrol from coal runs truck..... *606
 Steam-distilled coal gives low-temperature coke in Kerrick carbonization process. Jacobsen & Carter..... *148

V

- Ventilation**
 A.I.M.E. discusses ventilation..... *601
 Anemometer is a warning (e)..... 222
 Exhaust pipe to be placed near the floor or near the roof? (e)..... 273
 Fan changes promote efficient ventilation at Valley Camp mine. I. A. Given..... *171
 Fans to fit discussed at Coal Mining Institute..... 30
 History of mine ventilation..... *428
 Interchangeable trapdoor uses at Chicago, Wilmington & Franklin Coal Co. 24

- Pittsburgh Coal introduces new type of fan. A. L. Barrett..... *15
 Streamlining airways. A. E. Smith..... 166
 Timing relay used in alarm added to fan control..... *80
 Ventilation receptivity (e)..... 130
 West Virginia Coal & Coke Corp. ventilation practices..... *580
 Where to place stoppings. A. L. Barrett..... *166
 Where to put stoppings (e)..... 2

- Virginia**
 Inspector for Buchanan County 87

- Virginia Coal Operators' Assn.**
 Officers elected 215

W

- Webster Field**
 Adds twelve mines to list of West Virginia producers *3

MINE AND COMPANY INDEX

A

- Allen & Garcia Co.
 Changes in staff 88
 Appalachian Coals, Inc.
 Fuel engineering division meeting at Cincinnati..... 344
 Smoke abatement and better combustion promoted at Cincinnati meeting *526
 Symposium on stokers 87
 Arkwright Coal Co.
 Mona mine reconstructs tipple *13

B

- Bell & Zoller Coal & Mining Co.
 Bit sharpening cost cut. Hector Hall..... *366
 Ben Franklin Coal Co.
 Property sold 218
 Bethlehem Mines Corp.
 Changes name to Industrial Collieries Corp. 121
 Bethlehem Steel Co.
 Continuous strip sheet mill opened ... 339
 Binkley Mining Co.
 Boblink mine uses 30 yd. shovel and 25 ton trailers. I. A. Given..... *131
 New stripping plant scheduled 387
 Black Diamond Coal Co.
 Strike ends 389
 Whitwell mine leased by Whitwell Smokeless Fuel Co. 488
 Bledsoe, Walter & Co.
 Sectionalizing switches 25
 Bortz Coal Co.
 Leases Youngstown mine from H. C. Frick Coke Co. 525
 Boulder Valley Coal Co.
 New lignite mine to be opened..... 218
 Brookside-Pratt Mining Co.
 New drift mine planned 346
 Broomhill Colliery
 I-beam makes coal sprag *380
 Transporter aids car changing..... *377

C

- C. & E. Coal Co.
 Fire damages plant 165
 Cambridge Collieries Co.
 Semi-portable hoist cuts refuse disposal cost *516
 Carbondale Coal Co.
 Property sold 218
 Central Coal & Coke Co.
 Purchased by Colony Coal Co. 529
 Central State Collieries
 Opening new strip mine 307
 Chaplin Collieries leased. 605
 Chicago, Wilmington & Franklin Coal Co.
 Interchangeable trapdoor *24
 Orient mines plan electrical distribution for life of the operations. J. H. Edwards..... *321
 Wiring diagram for New Orient mine corrected 487
 Christopher Mining Co.
 Robinson Run mine averages 15.6 tons per man working in pillar sections. I. A. Given..... *315
 Cochran Coal Co.
 Hand pump facilitates completing seals*519
 Spring rail holds switches in room turnout *337
 Colony Coal Co.
 Car retarder built around old feed drums*336
 Conveyor runs cross unit through side drive *335
 Purchases Megeath Coal Co. and Central Coal & Coke Co. 529
 Shaker conveyors work in groups of two per level *328
 Trip marker for car made of pipe and reflector *337

- Underground crossing design *338
 Consolidation Coal Co.
 Coordination key to efficient haulage at New Monarch. C. C. Conway..... *275
 Creosoted mine ties in good condition after nine years *524
 Reorganization completed 88
 Coxe Bros. & Co.
 Tomhicken colliery resumes operations 387
 Cranberry Coal Co.
 Hazleton colliery resumes operations... 387

D

- Dawson Collieries
 Organization of company 300
 Deegans mine sold to Bankers' Pocahontas Coal 311

E

- East Bear Ridge Colliery
 Hoisting shaft raised from slope to main tunnel. H. A. Dierks..... pt. 1 *182
 Shaft raising sets new record in construction costs. H. A. Dierks, pt. 2. *223
 East Boston Coal Co. resumes operations. 606
 Elkhorn Piney Coal
 Converter control improved by adding snap switch *334
 Ingram Branch mine wins safety trophy 301
 Relay adjusting speeded by counting operations by causes *298
 Enos Coal Mining Co.
 Water dedusting solves wet coal difficulties at strip mine *371

F

- Fordson Coal Co.
 Property sold to Eastern Coal Co. 300
 Frick, H. C. Coke
 Youngstown mine leased to Bortz Coal Co. 525

G

- Glen Alden Coal Co.
 Nottingham breaker being razed..... 387
 Glendora Coal Co.
 Mechanizes with track-mounted loaders *7
 Goose Creek Mining Co.
 Conveyors supplement mechanical loading at new mine *177
 Great Southern Morgan Coal Coke & Mining Corp.
 Plans to operate Richmond field 159
 Gunn-Quealy mine reopened 488

H

- Hanna Coal Co.
 Dun Glen mine to be opened..... 310
 Piney Fork output to be boosted 218
 Welded track proves efficient. J. H. Edwards..... *137
 Willow Grove enters list of completely mechanized mines 33
 Harman Coal Corp.
 Dual-purpose car made with flanged drain and calking *208
 Four wheel drive attained by outside chain *112

Welding

- Gathering arm disk shafts welded. Walter Baum..... *156
 Hanna mines proves efficiency of welded track. J. H. Edwards..... *137
 International Acetylene Association discusses welding 605
 Removing stud bolts made easy *210

West Virginia Coal Mining Institute

- Officers elected 525
 Report of Logan meeting 523

Winding Gulf Operators' Assn.

- Officers elected 20

World Power Conference

- Coal topics to be discussed in conference 383
 Engineers study tours to feature conference 257
 Natural resource policies to be considered 339
 Program for third conference 305
 Third World Power Conference scans coal resources and stabilization 483

- Harwick Coal & Coke Co.
 Power improvements boost working face voltages. C. T. Blackmore *101
 Hughes, C. A. & Co.
 Closed circuit signal system avoids one slope hazard *114
 Hutchinson Coal Co.
 Heavy duty puller for pinions and housings *380

- Illinois Zinc Co.
 Trip flag with reflectors *155
 Industrial Collieries Corp.
 Name changed from Bethlehem Mines Corp. 121
 Inland Collieries Co.
 Indiana mine leased to Republic Steel Corp. 311

- Jeddo-Highland Coal Co.
 Jeddo No. 7 wins safety award 301
 Jewell Ridge Coal Corp.
 Fire in compressor room 487
 Jones Collieries, Inc.
 Rachel mine to be reopened 163

- Kanawha & Hocking Coal & Coke Co.
 Harewood mine planned to capitalize on changing trends *226

- Kehoe-Berge Coal Co.
 Acid water neutralized and clarified for breaker use *498
 Flood recovery progress in the Wyoming Valley. R. D. Hall *355

- Kelly's Creek Colliery Co.
 Wood mounted connectors serve conveyor cables *297

- Kemmerer Coal Co.
 Air driven shakers give 8 to 9 tons per man-shift. I. A. Given *372

- Kentucky Jellico Coal Co. damaged by fire 607

- Killarney Smokeless Coal Co.
 Kilpoca mine sold to Lillybrook Coal 488

- Single bucket conveyor gets average slack sample *79

- Kingston Coal Co.
 RFC Loan to company 124

- Klondike Fuel Co.
 G. B. mine resumes operations 124

- Knox Consolidated Coal Corp.
 Equipment for changing circle hose... *27

- Suction control for gathering pumps. *156

- Koppers Coal & Transportation Co.
 Bolted fuse clamps improve protective service *78

- Contract awarded to build 146 coke ovens at Fairfield 533

- Controller turns on the leading headlight*209

- Dust from dump at slope bottom removed by vacuum fan at tipple *111

- Layer-loading hoist mounted on long crossties *110

- Locomotive height cut by removing motor or adding pony truck for reel... *78

- Standard procedure in case of a mine accident 520

- To operate two mines of the Sonnen Shaft Coal Co. 88

L

Lehigh Navigation Coal Co.
Air cylinders shifts battery of 8-ton locomotive..... *113
Combination gate and chute regulates flow from bin..... *156
Device controls visual signals on hoist*208
Herringbone wire catchers in Coaldale breaker..... *206
Timing relay used in alarm added to fan control..... *80
Use of mirror saves time in changing levels..... *26

Lillybrook Coal Co.
Thousand-dollar compressors displace obsolete units..... *295

Linton-Summit Coal Co.
Loading and preparation mechanized at Templeton mines..... *7

Lion Coal Corp.
Blairtown mine reopened..... 487

Little John Coal Co.
Strip mine opened on Galesburg & Great Eastern RR..... 339

Logan County Coal Corp.
Air-sand process and new sizing facilities installed. W. W. Beddow..... *139

Lorberry Creek Anthracite Corp.
To mine field in Tremont township..... 159

Louise Coal Co.
Fire damages plant..... 165

Loup Creek Colliery Co.
Plug prevents derailments..... *297

Lutie Coal Co.
Leased by Hartwell & Lester..... 381

M

Mary Helen Coal Corp.
Curved pipe trolley supports..... *208
Megeath Coal Co.
Purchased by Colony Coal Co. 529
Minds Coal Mining Corp.
New Webster coal field brings additional tonnage to West Virginia..... *3

N

New River Co.
Compressor with drop axle..... 377
Gradual rise of feeder dogs easier on cars..... *78
Locomotives rebuilt for operating in lower coal..... *334
Spring bumper dogs to localize coupling cars in empty hole..... *81
Summerlee mine increases output by new mine cars..... *20
New River & Pocahontas Consolidated Coal Co.
Rolled-steel wheels with "balloon" tread last 8 years. J. H. Edwards..... *365
Nokomis Coal Co.
Reliance mine reopened..... 487
Norfolk & Western Railway Co.
Relays reduce trip stoppages on heavy grades..... *114
Norton Coal Co.
Property sold to Sterling Lanier, Jr.... 487

O

Oak Hill Coal Co. Black Betty mine reopens..... 608
Oakwood Smokeless Coal Corp.
Plans operation in Grundy (Va.) field..... 86
Ohio & Pennsylvania Coal Co.
Bit-tipping cost reduced by hard surfacing..... *252
Old Ben Coal Corp.
Abandons flooded mine..... 258
Concentric cable suspension reduces bore hole cost..... *516
Mine No. 11 will be reopened..... 347
Mine No. 18 flooded..... 85
State fund to dewater No. 18 mine..... 165
WPA may dewater mine..... 487

P

Panther Creek Mines
No. 2 mine reopened..... 482
No. 4 mine reopens..... 608
Pardee & Curtis Lumner Co.
New Webster coal field brings additional tonnage to West Virginia..... *3
Payne Coal Co.
Exeter colliery starts work..... 124
Peerless Sales Co.
New mine turns to conveyor loading for working thin seam coal. I. A. Given*290
Shaker conveyor hold down..... *297

Pemberton Coal & Coke Co.
Conveyor mining adds years to Affinity plant life..... *91
Firing rheostat reduces cost for gang crew shooting..... *110
Perry Coal Co.
Axle housings make stands..... *210

Boring gathering arm disk of loader. Walter Baum..... *255
Cutting new spur gear teeth. Walter Baum..... *336
Gear pullers..... *112
Hard surfacing machine bits..... *81
Improving hydraulic jack on loader. Walter Baum..... *378

Jigs for molding motor end plates. Walter Baum..... *296
Rebabbitting jig and many duty puller. Walter Baum..... *518
Welding gathering arm disk shafts. Walter Baum..... *156
Peterson mine
Fire flooded..... 214

Philadelphia & Reading Coal & Iron Co.
Mahanoy City Colliery life extended by mechanizing basin mining. R. D. Hall..... *283
Pittston Coal Co.
Fan designed on aerodynamics principles. A. L. Barrett..... *15
Pittston Co.
Flood recovery progress in the Wyoming Valley. R. D. Hall..... *355

Pocahontas Fuel Co.
New drainage tunnel open for inspection..... 525
"Tailor-made" borehole cables serve mines..... *376
Pond Creek Pocahontas Co.
Largest and longest cable supported by conductor..... *154

Second synchronous fan motor allows last step discount..... *294
Powhatan Coal & Coke
Fire damages plant..... 165
Premier Block Coal Co. chartered..... 607
Pschirrer & Sons Coal Co.
To open new mine..... 257

R

Rainey, W. J., Inc.
Clyde mines construct permanent haulways..... *362
Red Jacket, Jr., Coal Co.
Retractable type pickers and high tensile steel mine cars feature development. J. H. Edwards..... *278
Redoak Smokeless Coal Co.
New Webster coal field brings additional tonnage to West Virginia..... *3

Reid Coal Co.
Derail block..... *209
Republic Steel Corp.
No fatal accident in 1935 in six coal mines..... 86
Roberts & Schaefer Co.
Services to continue as in past..... 124
Rock Springs Coal Co. damaged by fire..... 607

S

Sahara Coal Co.
Armature slot trough bender improves shop practice..... *519
Storage batteries used for floating power*360
Wire breakage in banding armatures stopped by spring support..... *379
Shirley Gas Coal Corp.
Stripping operations started..... 388

Snow Hill Coal Corp.
Root supports used in different situations..... 24
Talleydale mine uses welded 40-lb. frogs..... *517
Talleydale operations completely mechanized. I. A. Given..... *491
Talleydale preparation plant mechanically cleans all sizes. I. A. Given..... *500

Sonman Shaft Coal Co.
Koppers Coal to operate two of the mines..... 88
Standard Coal Co.
Caging signal..... 24
Sternberg Coal Corp.
Small stripping units produce high daily tonnage..... *325

Stevens Coal Co.
Dynamites bootleg mines on its holdings..... 347
Sullivan Trail Coal Co.
Anthracite breaker tuned to present day demands..... *97
Sunlight Coal Co.
Modernization program improves stripping and preparation plant..... *189

To reopen mine..... 608

Susquehanna Collieries
No. 6 colliery resumes operations..... 484

T

Templeton Coal Co.
Mechanizes with track mounted loaders..... *7
Tennessee Coal, Iron & Railroad Co.
Hamilton mine resumes operations..... 606
No. 1 slope leased to Colonial Coal & Coke Co. 303

U

Union Colliery Co.
Kathleen mine receives adequate power supply by portable substations. C. E. Cawvey..... *185
Union Pacific Coal Co.
Bonus payments to be monthly 87
Conveyor and cutter controls combined in one unit..... *335
Counterweighted saw guard has locking screw..... *338
Improvement program to be launched..... 487
Improvements to increase output..... 85
Individual drives installed in shop changes..... *379
Management must take lead in accident prevention. G. B. Pryde..... *319
Old Timers' Association—annual reunion..... 346
Roller track mounting for shaker conveyors..... *380
Shims stop spooling trouble when rope is turned..... *376
United Electric Coal Co.
Holmes safety certificate received..... *312
Sue Progressive Union..... 389
United States Fuel Co.
Safety hints..... *337
Utch Fuel Co.
Dustproofing coal brings wide consumer acceptance. C. E. West..... *229

V

Valier Coal Co.
Portable transformer truck..... *24

Valley Camp Coal Co.
All-welded inspection car..... *210
Low cost and safety keynote of improvement program. I. A. Given..... *171
Safety measures prove worth at Wheeling mines..... *197

W

Warner Collieries Co.
Opens three new mines..... 525
Wells-Elkhorn Coal Co.
Central West Coal Co. purchases property..... 487
West Virginia Coal & Coke Corp.
Boom counterweights are precast and use pipe guides..... *592
Drainage and pumping methods..... *571
Dummy-filling machine speeds work..... *593
Electric eye guards railroad crossing..... *591
Electrification methods..... *566
Filtered air keeps substation equipment clear..... *592
History of the companies..... *539
Industrial relations..... *584
Maintenance and supplies..... *574
Management of the companies..... *542
Mechanical loading..... *551
Merchandising practices..... *587
Mining methods..... *547
Preparation practices..... *560
Safety practices..... *577
Shaft stairway supported by concrete pads..... *591
Transportation practices..... *556
Ventilation practices..... *580
West Virginia Coal & Coke Corp. (e)..... 537
Wheeling Township Coal Mining Co.
Portable 400-kw substation..... *253
Portable reclosing breakers aid mechanical loading..... *254
Safety sign of glittering letters to attract attention..... *295
Swivel bin aids bit charging..... *207
White Star Coal Mining Co.
Opens new strip mine..... 165
Windsor Power House Coal Co.
Portable guards protect men working under trolley..... *155
Wolf Collieries Co.
Builds jig breaker and cracks coal in rock house..... *135
Wyoming Valley Collieries Co.
Bond issue for new equipment..... 344

AUTHORS' INDEX

BARRETT, A. L. Fan designed on new aerodynamic principles..... *15

Where to put stoppings..... 166

Baum, Walter. Cutting new spur gear teeth..... *336

Improving hydraulic jack on loader*378

Rebabbitting jig and many duty puller*518

Welding gathering arm disk shafts..... *156

CARTER, GEORGE W., and S. C. Jacobson. Steam-distilled coal yields low-temperature coke..... *148

Cawvey, C. E. Portable substations assure adequate power at Dowell..... *185

Conway, C. C. Coordination key to efficient haulage at New Monarch..... *275

DIERKS, H. A. Cost of upraising shaft at East Bear Ridge colliery sets new construction standards, pt 2. *223
 Hoisting shaft raised from slope to main tunnel pt. 1 *182

EAVENSON, HOWARD N. Quarter century—before and after *397
Edwards, J. H. Development and equipment at new Red Jacket Jr. mine *278
 Plan electrical distribution for life of operations *321
 Rolled steel wheels prove worth in West Virginia *365
 Welded track proves efficient at Hann mines *137

GARCIA, JOHN A. The next quarter century in coal *475
Given, Ivan A. Bobolink mine uses 30 yd. shovel and 25 ton trailers. *131
 Kemmerer gets 8 to 9 tons per shift with air shakers *372
 Low cost and safety keynote of Valley Camp mine-improvement program *171
 New Peerless mine turns to conveyor loading for working thin seam coal in Utah *290
 New Talleydale plant mechanically cleans all sizes *500
 Robinson run mine averages 15.6 tons per man working in pillar section *315

Snow Hill Talleydale operations completely mechanized *491

HALL, HECTOR. Bit-sharpening cost cut to less than one-half *366
Hall, R. Dawson. British tax finances min welfare and recreational facilities pt. 1 *105; pt. 2 *145; pt. 3 *201
 Century of progress in mine explosives *194
 Flood recovery progress in Wyoming buried valley *355
 Jobs saved by mechanizing basin mining at Mahanoy City Colliery *285
Harrington, Daniel. Safety record in 1935 close to 1933 mark 64
Hesse, A. W. Shaft and slop' linings of concrete—protection against water *511
Hurst, William. How to store and use mine lubricants *287

JACOBSEN, S. CLARK & G. W. Carter. Steam-distilled coal yields low temperature coke *148
Johnson, Allen J. Modernizing home heating *436

KOPER, FRED G. Coal preparation in the bituminous industry *94

NELLEN, WILLIAMS. Mechanization in anthracite region 18

Northover, Harry. Snug-fitting clothes for safety 312

PRENDERGAST, JAMES. Coal miner's lot bettered in last quarter century *459
Pryde, George B. Management must take lead in accident prevention *319

RAMSAY, ERSKINE. Past triumphs over adverse conditions can be repeated today *469

SALVATI, R. E. What the Cincinnati convention offers *193
Smith, E. A. Streamlining airways 166
Stubbe, G. Gravity methods also successful 312

WAGNER, FRANK H. How anthracite uses duckbills in mechanical loading *506
Weir, Paul. Mechanization makes rapid strides in soft coal mines 505
West, Charles E. Dustproofing coal brings consumer acceptance *229
White Jerome C. Scientific management and the coal industry *424
Williams, Clyde E. Coal industry looks to research *452